Journal of Chemical Ecology, Vol. 27, No. 12, December 2001 (© 2001)

AUTHOR INDEX TO VOLUME 27

Abassi, S. A., 33
Abou-Zaid, M. M., 2519
Agerbirk, N., 2507
Agosti, D., 1575
Alam, S. N., 1867
Albert, P. J., 1963
Alias, J. C., 611
Allison, J. D., 633
An, M., 125, 381, 393, 1691
Anbutsu, H., 1151
Anderbrant, O., 733, 1561
Anderson, D., 2277
Anderson, P., 995
Ando, T., 2153
Appel, H. M., 761
Arakaki, N., 2153
Argandona, V. H., 53
Arnason, J. T., 2519
Aron, S., 945
Astruc, C., 1229
Attygalle, A., 907, 1575
Auger, J., 2205
Aufreiter, S., 283
Avtzis, N. D., 733

Badji, C., 2097
Baldwin, I., 547
Barrow, R., 747
Bartelt, R. J., 1841, 2399
Bau, P., 1879
Baumann, T., 341
Becerro M. A., 2289
Beihoffer, J., 581
Bellotti, A. C., 2205
Bento, J. M. S., 2042, 2053
Benusic, K., 487
Berenbaum, M. R., 1763
Bergelson, J., 593
Birgersson, G., 995
Birkett, M. A., 33
Bjerselius, R., 2339
Blaustein, A. R., 1667
Blum, M. S., 1219
Blum, U., 807
Boeve, J.-L., 2507
Bohlin, L., 517
Borden, J., 215, 633
Borgemeister, C., 663
Bowers, W., 201
Braekman, J.-C., 945
Brakefield, P. M., 2507
Bramley, G. N., 1029
Brandon, S., 1077
Brashear, H., 1011
Bratt, K., 2255
Brockerhoff, E. G., 1091
Brockmann, H. J., 2321
Brown, G., 1657
Bryant, B. P., 1627
Bryer, P., 533
Bruce, T. J., 1119
Burger, B. V., 1259, 1277
Buschmann, H., 2205

Cabrera, A., 2097
Caicedo, A. M., 2205
Calatayud, P.-A., 2205
Calatayud, S., 2205
Calderon, J. S., 137
Cambier, V., 357
Cantonwine, E., 311
Cardemil, L., 53
Carvalho, L., 233
Cespedes, C. L., 137
Chabi-Olaye, A., 663
Chaman, M., 53
Chang, S.-T., 717
Charles, S., 945
Chaves, N., 611, 623
Chen, F., 523, 1617

0098-0331/01/1200-2601/0 © 2001 Plenum Publishing Corporation

Chen, X., 1091, 1821
Cheng, S.-S., 717
Chiapusio, G., 1701
Chiszar, D., 979
Chitwood, D. J., 859
Chivers, D. P., 45, 533, 1641, 1667, 1775
Cipollini, D., 593
Clausen, T. P., 725
Corcuera, L. J., 53
Cork, A., 1119, 1867
Corkum, L. D., 443
Cosse, A. A., 1841, 2399
Costa-Arbulu, C., 271
Crafts-Brandner, S. J., 679
Cribb, B. W., 871, 889
Cross, J. V., 1203
Cruz-Cordero, R., 2439
Cruz-Lopez, L., 69, 2439

Daggard, G., 747
Daloze, D., 945
Daly, J. M., 1091
Dani, F. R., 1575
Das, A., 1867
Das, C. S., 1867
D'Alessandro, M., 2235
D'Ascenzo, M., 761
D'Mello, J. P. F., 1749
David, J.-P., 161
Davies, N. W., 1077
Deahl, K. L., 1105
Dearing, D., 845, 2561
Dellagreca, M., 255
Dias, L. S., 409
Dicke, M., 1911
Dickens, J. C., 1105
D'Mello, J. P. F.,
Dobly, A., 1953
Dodson, C. D., 581
Dore, T., 81
Dorn, S., 2235
Downum, K., 311
Drijfhout, F. P., 1133
Duff, C., 431
Dunn, T., 979
Dyer, L., 581

Eck, G., 1979
Edlund, H., 733
Egerton-Warburton, L., 369
Eiras, A. E., 907, 2097
El-Seedi, H., 517
Epple, G., 1627
Errard, C., 1229
Escobar, C. A., 1677
Escudero, J. C., 611, 623
Estell, R., 2265, 2277
Etges, W. J., 2126
Evans, P., 201

Fales, H. M., 1219
Farman, D. I., 1867
Fei, H., 1617
Felton, G. W., 2583
Ferguson, D. C., 431
Ferrara, F. A. A., 907
Ferrari, S. F., 93
Fettinger, J. C., 859
Fiala, B., 1979
Filonow, A. B., 831
Fiorentino, A., 255
Foley, W. J., 1077
Fortunato, A., 569
Fragoyiannis, D. A., 1749
Francis, F., 241
Franklin, A. J., 2427
Fredrickson, E., 2265, 2277
Frighetto, R. T. S., 907
Frischknecht, P., 341
Fujii, Y., 19

Gabrys, B., 2531
Gallet, C., 81
Gardener, D. R., 151
Gardener, M. C., 2547
Ghia, F., 517
Ghisalberti, E., 369
Ghosh, G. C., 1867
Gianoli, E., 271
Gibb, A. R., 1091
Gillman, M. P., 2547
Godin, J.-G. J., 1775
Goetz, G., 2289
Gokcen, O. A., 1575
Golub, J. L., 1657
Gomez, N. E., 2353
Gonzales, W., 271
Gorden, D., 1805
Gotoh, T., 1163
Gottlieb, L., 1821

Goulson, D., 109
Govenor, H. L., 761
Green, E. S., 1763
Gregoire J.-C., 2427
Grierson, G. R., 1259
Gries, G., 431, 1163, 1535, 1547, 2097
Gries, R., 431, 633, 1163, 1535, 1547, 2097
Grolleau, G., 1879
Groot, A. T., 1133
Groot, P., 633
Guerin, P. M., 471
Guerrero, A., 1879
Guillaud, J., 2205

Hadwich, K., 499
Haig, T., 125, 381, 393, 1691, 2365
Haim, A., 1953
Hall, D. R., 1203, 1867
Hance, T., 357
Hancock, R., 283
Haribal, M., 1575, 1585
Hasenstein, K., 325
Hassler, C., 2321
Haubruge, E., 241
Havstad, K., 2277
Haynes, L. W., 1
Heath, J., 419
Hefetz, A., 919, 927
Helson, B. V., 2519
Hendenstrom, E., 733
Henderson, G., 523, 1617
Henneberry, T. J., 679
Hern, A., 2235
Hilker, M., 499, 985
Hintz, K. A., 1011
Hiradate, S., 19
Ho, H.-Y., 1177, 2067
Hoffmann, E., 357
Hogberg, H.-E., 733
Hollister, B., 1105
Horn, M., 547
Hou, R. F., 1855
Howse, P. E., 109
Huber, D., 215
Hudson, M., 2461
Huffman, M., 283
Hughes, W. O. H., 109
Hull, C. D., 871, 889
Hung, C. C., 1855
Hung, M. D., 1855
Hunter, M. D., 1713, 1729
Hwang, J. S., 1855

Inui, Y., 2029
Ionesko, A., 919
Innocenzi, P. J., 1203
Itino, T., 2029
Itioka, T., 2029

Jaffe, K., 2097
James, D. G., 1841
Jang, E., 233
Jackson, L. L., 2126
Jham, G. N., 907
Johansson, B., 733
Johnson, C. A., 1787
Johnson, K. S., 2583
Jones, G. R., 569
Jones, T., 1219
Jonsson, P., 1561
Joseph, G., 697
Julkunen-Tiitto, R., 779

Kaib, M., 175, 188
Kakizaki, M., 2449
Kalberer, N. M., 647
Karasov, W., 2561
Katzav-Gozansky, T., 919
Keeling, C., 487
Kelsey, R. G., 697
Kindahl, H., 2339
Kiesecker, J. M., 1667
Kinnel, R., 1011
Kobaisy, M., 2265
Kohlmann, S., 1997
Konstantopuolou, M. A., 2169
Krokos, F. D., 2169

Labra, A., 1677
Laine, R. A., 523, 1617
Langstrom, B., 2255
Laska, M., 1997
Leal, W. S., 2042, 2053, 2183
Leclercq, S., 945
Leitao, G. G., 93
Lamb, J. G., 845
Lavine, B., 1787
Lemerle, D., 125, 1691
Leskey, T. C., 1
Lewis, M., 1943

Lewis, S., 1627
Letourneau, D., 581
Linsenmair, K.-E., 1979
Lioubomirov, A., 1011
Liska, J., 1163
Liu, G.-T., 995
Lloyd, H. A., 1219
Lofstedt, C., 2109
Lognay, G., 241
Lopez, K. D., 1575
Loponen, J., 1049
Lorenzetti, F., 1963
Lotina-Hennsen, B., 137
Louws, F., 807
Luna, E. R., 1997
Lyytikainen-Saarenmaa, P., 1561

Mahaney, W., 283
Maier, C. T., 431
Maile, R., 569
Maistrello, L., 523
Malosse, C., 1229
Mandon, N., 2205
Mangione, A. M., 2561
Maslen, N. R., 1867
Mattiacci, L., 2235
Mares, M., 547
Marigo, G., 161
Marshall-Batty, K., 1219
Mauffette, Y., 1963
Mayer, I., 2339
Mazomenos, B. E., 2169
McBrien, H. L., 1821
McElfresh, J. S., 791
McIntosh, R. L., 633
McKinlay, R. G., 1749
McLean, S., 1077
McMahon, C., 471
Meiners, T., 499
Meinwald, J., 907
Meyer, S. L. F., 859
Meyran, J.-C., 161
Mezine, I., 1627
Millar, J. G., 791, 1177, 1821, 2067
Milner, M., 283
Miras, B., 2097
Mirza, R. S., 45, 533, 1641, 1775
Momany, F. A., 2399
Monaco, P., 255
Moneti, G., 569
Moore, P. A., 2305
Mopper, S., 325
Morgan, E. D., 69, 569, 1575, 2439
Mori, K., 431
Muller, C., 985, 2507
Muller-Scharer, H., 341
Muller-Schwarze, D., 1011
Munoz, O., 53
Murase, K., 2029
Murata, Y., 2042
Murphy, C. A., 443

Nakajima, N., 19, 2153
Ngo, H., 487
Niemeyer, H. M., 271, 1677
Nitao, J. K., 859
Niwa, C. G., 697
Nordenhem, H., 2255
Nordlander, G., 2255
Nozzolillo, C., 2519

Oksanen, E., 1049
Olsen, C. E., 2507
Olsen, K. H., 2339
Ono, M., 2042
Ostrand, F., 1561

Panzuto, M., 1963
Pare, P. W., 679
Parra, J. R. P., 2042, 2053
Pass, G. J., 1077
Pasteels, J. M., 945
Patricio, E. F. L. R. A., 69
Paul, V. J., 2289
Pavia, H., 1899
Peacock, L., 1943
Peck, R. W., 697
Pellissier, F., 1701
Peng, G., 2183
Pereira, S. N., 93
Perez, F., 1105
Persons, M. H., 2495
Petroski, R. J., 1841
Pettersson, J., 33
Phelan, P. L., 1, 419
Phythian, S. J., 1867
Picanco, M. C., 907
Pickett, J. A., 33, 2461
Pieraccini, G., 569
Pihlaja, K., 1049

Pinto, G., 255
Plata, D. L., 1657
Poehling, H.-M., 663
Pohlman, S. G., 1249
Posthumus, M. A., 1911
Powell, J., 2265
Powers, S., 1943
Pratley, J., 125, 381, 393, 1691
Previtera, L., 255
Proksch, P., 1979
Prokopy, R. J., 1

Quader, M., 747

Rahier, M., 647
Raw, A., 233
Ralphs, M. H., 151
Reich, M., 283
Reinhard, J., 175, 188
Remmenga, M., 2277
Renou, M., 1879
Renwick, J. A. A., 1063, 1575, 1585
Rey, D., 161
Riba, M., 1879
Rice, R. E., 1821
Robertson, D., 807
Robinson, G. E., 919
Rocca, B. A., 2235
Rodriguez-Saona, C., 679
Rojas, J. C., 2439
Rosell, F., 2473
Ross, G. N., 1219
Rouf, F. M. A., 1867
Rousset, S., 2205
Rozenfeld, F. M., 1953
Rubinoff, D., 791
Ruuhola, T., 1595
Ryne, C., 2109
Rypstra, A. L., 2495

Salazar, J. R., 137
Salazar, L. T. H., 1997
Saleem, A., 1049
Salmore, A. K., 1713, 1729
Salvadori, C., 733
Sans, A., 1879
Scascighini, N., 2235
Schaefer, P. W., 1163
Schaffner, U., 2507
Sherman, M. L., 2305
Scheuer, P. J., 2289
Scheuber, H.-P., 1997
Schlyter, F., 995
Schmidt, C., 1259, 1277
Schmidt, U., 1259, 1277
Schmidt, W. F., 859
Schrader, K., 2265
Schulthess, F., 663
Schultz, J. C., 761
Schulz, S., 499
Schumacher, K., 341
Segura, R., 137
Seki, M., 431
Sene, M., 81
Sheng, T., 431
Shirai, Y., 431
Showler, A. T., 2013
Simandl, J., 733
Simas, N. K., 93
Simmonds, M. S. J., 965
Siska, E., 761
Skibo, C., 1011
Slesak, E., 2531
Slesak, M., 2531
Slessor, K. N., 431, 487
Smit, D., 1259, 1277
Smith, H. M., 979
Sokoloski, E. A., 1219
Song, Q., 1930
Sorenson, J. S., 845
Soroker, V., 919, 927
Sorsa, S., 779
Sosa, T., 611, 623
Spies, H. S. C., 1259, 1277
Srinivasan, K., 1867
Stacey, N. E., 443
Staman, K., 807
Stark, P., 979
Stevenson, P. C., 965
Suckling, D. M., 1091
Sugie, H., 2449
Sundsdal, L. J., 2473
Sunnerheim, K., 2255
Sutherland, M. W., 747
Svatos, A., 907
Svensson, G. P., 2109
Syed, Z., 471

Tahvanainen, J., 1595
Takacs, S., 1535, 1547

Takikawa, H., 431
Tan, K.-H., 953
Telitsina, A. Y., 1259, 1277
Tellez, M., 2265, 2277
Thibout, E., 2205
Tikkanen, O.-P., 1595
Tissot, M., 1805
Togashi, K., 1151
Torssell, K., 517
Toth, G. B., 1899
Turillazzi, S., 569
Turlings, T. C., 647

Urdaneta, N., 2097

Valeur, P., 995
Van Dam, N., 547
Van Poecke, R. M. P., 1911
Vander Meer, R. K., 927, 1787
Vedham, K., 1867
Vilela, E. F., 907, 2042, 2053
Volz, T., 725

Waas, J. R., 1029
Wadhams, L. J., 33
Wagner, D., 1805
Wakamura, S., 2153
Walder, J. M., 2053
Walker, S., 747
Wang, S.-Y., 717
Wang, Y., 325
Waterhouse, J. S., 2461
Wathelet, J., 241
Watkin, E. E., 1249
Wedge, D., 2265
Wee, S.-L., 953
Wegener, R., 499
Wehner, R., 1575
Weisleder, D., 2399
Weldon, P. J., 2461
Wildy, E. L., 1667
Williams III, L., 201
Williams, R., 419
Wink, M., 283
Wisenden, B. D., 1249
Witte, L., 2353
Woodcock, C. M., 33
Wright, S. E., 1
Wu, H., 125, 1691

Yamamoto, M., 2153
Yamaoka, R., 2029
Yamazawa, H., 2153
Yang, C., 1930
Yang, D., 1930
Yen, Y. P., 1855

Zangerl, A. R., 1763
Zarrelli, A., 255
Zhang, G., 1930
Zhang, Q.-H., 995
Zhang, W., 1575
Zhu, B. C. R., 523, 1617
Zilkowski, B. W., 2399
Zuniga, G. E., 53

Journal of Chemical Ecology, Vol. 27, No. 12, December 2001 (© 2001)

SUBJECT INDEX TO VOLUME 27

Abscisic acid, 327
Absolute configuration, 945
Acer rubrum, 1011, 2519
Acer saccharum, 1963, 2519
Aceraceae, 2519
Acerophagus coccois, 2205
Acetylenes, 313
Acomys, 1953
Acrosternum hilare, 1821
Acylcyclohexane-1,3-diones(2-), 517
Adaptive phenotypic plasticity, 593
Adhesion, 831
Adsorption, 285
Aedes aegypti, 161
Aenasius vexans, 2205
Aggregation pheromone, 1203
Agraaulis vanillae, 1219
Agricultural Soils, 81
Alarm, 109
Alarm cue, 1249
Alarm pheromones, 1657
Alarm signals, 533, 1249, 1641, 1667
Aldehydes, 569
Alder leaf litter, 161
Alevin, 1775
Algae, 2265, 2289
Aliphatic acids, 569
Alkaloid, 33, 93, 151, 343, 945, 1105, 1713, 1729, 1749
Alkanes, 1805
Allelochemical, 125, 243, 393, 611, 623, 633, 1691, 2365
Allelochemical degradation, 1701
Allelochemical translocation, 1701
Allelopathic effects, 623
Allelopathins, 383
Allelopathy, 81, 125, 383, 393, 411, 611, 747, 807, 1701, 2365
Alliaria petiolata, 1585
Alliaria, 1575
Allomone, 203, 953
Allyl-4,5-dimethoxyphenol(2-), 953
Alticinae, 2399
Amaranthus, 2013
Amaranthus retrofluxus, 807
Amblyomma variegatum, 471
Amides, 581
Amino acids, 19, 175, 2013, 2547
Amphibians, 45
Amphipod, 1249
Anabasine, 945
Anal gland secretion, 2473
Anitfeedant, 965, 2255
Anomala osakana, 2183
Ant, 109, 945
Ant dispersal, 2029
Ant plants, 581
Anthocyanins, 273
Anthonomus rubi, 1203
Antioxidants, 2583
Anti-predator behavior, 45, 533, 1641, 1657, 2289, 2495
Antitermitic activity, 717
Ant-plant association, 1979
Ant-plant interactions, 2029
Aphaenogaster, 945
Aphid behavior, 2531
Aphid, 243, 273, 359, 1749
Aphididae, 1749
Aphthona, 2399
Apidae, 69
Aposematic, 203
Araceae, 517
Arhopalus tristis, 1091
Arid environment, 1953
Artificial diet, 359
Asteraceae, 313, 985
Athalia rosae, 2507
Atlantic salmon, 2339
Atta bispheaerica, 109

0098-0331/01/1200-2607/0 © 2001 Plenum Publishing Corporation

Atta capiguara, 109
Attractants, 1, 233, 471, 979, 1091, 1119, 1943, 2053
Attraction, 1930
Avoidance behavior, 1249

Bacteria, 807, 2265
Bactrocera papayae, 953
Bactrocera tryoni, 871, 889
Bait, 979
Barbarea stricta, 2507
Bark, 1091
Bark beetles, 697
Beaver, 1011, 2473
Beet army worm, 2013
Beetle, 217, 499, 1105, 2399
Behavior, 33, 647
Benzoxazin-3-ones(1,4-), 359
Benzylisoquinoline alkaloids, 93
Betula pendula, 1049
Bidens, 313
Bioassays, 161, 383, 1899
Biological activity, 383, 2265
Biological control, 831
Biotic defense, 1979
Biotransforming enzymes, 845
Bisabolene epoxide, 1821
Blood, 979
Bloodroot, 1713, 1729
Boraginaceae, 2553
Botrytis cinerea, 831
Braconidae, 33
Branta canadensis, 725
Brassica napus, 593
Brassica nigra, 2507
Brassica oleracea, 2235
Brassicaceae, 2507
Brazilian Atlantic forest, 93
Brinjal, 1867
Brook charr, 1641, 1775
Brown treesnakes, 979
Brown trout, 1641
Brushtail opossums, 1029, 1077
Bryopsis sp., 2289
Buccal gland secretion, 1277
Bulk-soil and rhizosphere bacteria, 807
Bullfrogs, 1667
Buprestidae, 633
Butyl acetate, 831

Cactus, 2126
Cadinene, 2399
Cadinol, 717
Caffeoylserine, 2205
Callithrix flaviceps, 93
Canavanine, 19
Carambola fruit borer, 1855
Carbon dioxide, 871, 889
Carbon nutrient balance, 725
Carbonyl defense, 203
Cassida stigmatica, 985
Caste, 109
Castor canadensis, 1011
Castor fiber, 2473
Castor sacs, 2473
Castoreum, 2473
Cataglyphys niger, 927
Catfish, 2305
Cattle poisoning, 151
Cedrela salvadorensis, 137
Cedrelanolide, 137
Cedrol, 717
Cellular residue, 979
Cellulose discs, 1963
Cellulose triacetate, 487
Cephidae, 1841
Cerambycidae, 633, 1091, 1151
Ceratosolen solmsiarchali, 1930
Chaconine, 1749
Chamomile, 2553
Chaparral, 371
Chemical attraction, 1930
Chemical camouflage, 1787
Chemical cues, 45, 533, 1667, 2321, 2495
Chemical defense, 581, 725, 1749, 1979
Chemical ecology, 93, 633
Chemical orientation, 2305
Chemical recognition, 2029
Chemical signal, 189, 1953, 2305
Chemoreception, 1963
Chilean lizards, 1677
Chiral HPLC, 2153
Chlorochroa ligata, 2067
Chlorochroa sayi, 1177
Chlorochroa uhleri, 2067
Chlorogenic acid, 807, 965
Chromatography, 2365
Chrysomelidae, 647, 985, 1105, 2553, 2399
Cicer arietinum, 965
Cis-epoxides, 2153

Cistus iadanifer, 411, 611
Close-range pheromone, 1133
Clove, 1617
Coccinella septempunctata, 33
Coccinellidae, 33
Coevolution, 633, 2029
Coleoptera, 33, 217, 419, 633, 647, 995, 1151, 1203, 2427
Colletotrichum, 2265
Colony defense, 569
Colony takeover, 1787
Colony, 109
Colorado potato beetle, 1105
Competition, 593
Composition, 2547
Conjugates, 2561
Conophthorin, 487
Conotrachelus nenuphar, 1
Constraints, 593
Contact sex phermone, 1133
Coptotermes formosanus, 717, 1617
Cordia curassavica, 2553
Corn stalk borer, 1879
Correlation, 2547
Costa Rica, 581
Costs of defense, 593
Costs, 1077
Cotesia glomerata, 2235
Cotton, 679, 2013
Coupled gas chromatographic-electro-antennographic detection, 1547, 1841
Crambidae, 2097
Creosote bush, 2561
Cross-adaptation, 443
Cross-coupling algicides, 257
Croton californicus, 203
Crucifer, 1575
Cruciferae, 1585
Crustacea, 1249
Cucumis sativus, 807
Cues, 45, 533, 1667, 2321, 2495
Curculionidae, 1203
Cuticular hydrocarbons, 1133, 1229, 1787, 1805, 2126
Cyanobacteria, 2265
Cyanoglucoside, 1585
Cytochrome P450, 1763

Defense, 203, 499, 569, 581, 593, 679, 725, 1713, 1749, 1979, 2235
Defensive glands, 1219
Defoliation, 151
Delphinium barbeyi, 151
Dendroctonus pseudotsugae, 217
Depsipeptides, 2289
Desert woodrats, 2561
Detection, 233
Detoxification, 845, 1077, 2561
Diacetoxy-12,13-epoxy-3,7-dihydro-xytrichothec-9-en-8-one(4,15-) 859
Diacetoxyscirpenol, 859
Diacetylnivalenol(4,15-), 859
Diel periodicity, 1163, 2053
Diel periodicity of pheromonal communication, 431
Diet cues, 45
Diet, 1063, 1657
Dietary requirements, 1535
Diexpoxyhenicosene, 2153
Dihydrofarnesoate(3-), 1177
Dihydrophenanthrenes(9,10-), 257
Dihydroxy-7-methoxy-1,4-benzoxazin-3-one(2,4-), 1691
Dihydroxytrichothec-9-en-8-one(7-), 859
DIMBOA, 359
Dimethyl-(1′,4′-hexadienyl)-1,2-epoxy-1-methylcyclohexane(1′,5′), 1821
Dimethyl-2-pentadecanol(3,7-), 733
Dimethyl-2-tridecanol(3,7-), 733
Dimethylheptadecane(7,11-), 431
Dina parva, 1249
Dinocampus coccinellae, 33
Dioprionidae, 733, 1561
Diprion pini, 733
Diprionol, 733
Diptera, 871, 889
Disruptant, 217
Disturbance cues, 533
Dodecenol((E)-8-), 2042
Dodecenol((Z)-8-), 1855
Dodecenyl acetate((E)-8-), 2042
Dodecenyl acetate((Z)-8-), 1855
Dorsal gland, 2461
Dose-response, 2427
Douglas-fir beetle, 217
Drosophila, 2126
Drying tests, 779
Dwarf hamster, 1259, 1277
Dynamics, 393

EAG, 2109
Ecdytolopha aurantiana, 2042, 2053
Ecological relevance, 517
Ectal mandibular glands, 569
Egg parasitoid, 499
Egg recognition, 1151
Egg yolk, 1775
Elaiosome, 1713
Electroantennogram, 33, 871, 2109
Electroolfactogram, 443
Electrophysiology, 889, 1963
Elevation, 1713
Elm leaf beetle, 499
Elysia rufescens, 2289
Emergence, 1775
Emmenanthe penduliflora, 371
Encyrtidae, 2205
Endo-brevicomin, 487
Environment, 343
Environmental odorants, 871, 889
Enzyme, 1899
EPG, 2531
Epoxy-2-methyloctadecane(7R, 8S)-*cis*-7,8, 1163
Epoxy-octadecane,(7R,8S)-*cis*-7,8, 1163
Essential oils, 717, 2553
Esters, 1575
Ethyl 2,3-dibromo-3-phenylpropanoate, 2255
Ethyl transcinnamate, 2255
Eucosma notanthes, 1855
Eugenol, 1617
Euphorbiaceae, 203
Eurytoma amygdali, 2169
Eurytomidae, 2169
Exo-brevicomin, 487
Exocrine glands, 203, 919
Exocrine secretion, 69, 1259, 1277, 1575
Exomala orientalis, 2183
Extraction methods, 2553

Farnesyl esters, 2461
Feeding behaviors, 1953
Feeding deterrents, 1063, 1105, 1575, 2277, 2519
Feeding inhibition, 1575
Feeding preference, 1963
Feeding stimulants, 1063
Ferruginol, 717
Ficus hispida, 1930
Field tests, 907, 1879
Fig volatile, 1930
Fire ants, 2439
Fire, 371, 1091
Fitness, 1535
Flavonoids, 779, 1575, 1585
Flavonols, 2519
Flea beetle, 2399
Flight dispersal, 2427
Floral attractant, 1119
Flourensia cernua, 2265, 2277
Folin-Ciocalteus, 1899
Folin-Denis assay, 761
Food conditioning, 1011
Food processing, 1011
Forager bees, 919
Foraging, 979
Foraging behavior, 979, 1911
Forest tent caterpillar, 2519
Formica gnava, 1787
Formica occulta, 1787
Formicidae, 109, 1575, 1787, 1805
Formicinae, 1229, 1575
Fractionation, 2265
Frontalin, 487
Fungal ecology, 831
Fungal spores, 831
Fungi, 859, 2265
Fur, 1535
Fusarium equiseti, 859

Galerucella, 1943
Gallates, 2519
Gammarus, 1249
Garlic mustard, 1575
Gas chromatography, 647, 2461
GC-EAD, 1547, 1841, 2042, 2097
GC-MS, 2365
Gekko monarchus, 953
Genetic diversity, 747
Genetically modified organism, 2583
Geographic variation, 313
Geometridae, 431
Geophagy, 285
Geranylacetone, 1547
Geranylgeranyl acetate, 69
Germacrene-D, 1203
Germination inhibition, 371
Germination, 411, 831, 1701
Gestalt, 927
Glucose conjugate, 1077

Glucosinolates, 243, 2507
Glucuronic acid, 2561
Glycoalkaloids, 1105, 1749
Gossypium hirsutu, 2013
Grandisol, 487
Grandlure, 1203
Green algae, 2289
Greenbug, 53
Green-leaf volatiles, 217, 995, 1911, 1943
Growth-differentiation balance hypothesis, 343
Guam, 979
Gustation, 1105
Gustatory preference thresholds, 1997

Hairpencils, 2053
Hamamelis virginiana, 1011
Hayata, 717
Headspace analysis, 1911
Health maintenance, 285
Helianthus annuus, 807
Heliocoverpa armigera, 965, 1119
Heliothis virescens, 965
Heliothis, 2583
Hemolymph, 2507
Heptacosene ((Z)-9-), 1133
Heptatoxicity, 953
Herbivore-prey relationship, 2289
Herbivory, 581, 593, 725, 1595, 1749, 1763, 1979
Heteroptera, 1133
Heterospecific chemical signals, 1953
Hexacedenyl acetate ((E)-11-), 1867
Hexadecanediol diacetate(1,15-), 1219
Hexadecanediol diacetate(1,16-), 1219
Hexadecenol(E)-11-, 1867, 2097
Hexadecenol(Z)-11-, 2097
Hexanol(1-), 995
Hexenyl *n*-hexanoate, ((E)-2-), 2449
Hexyl *n*-hexanoate, 2449
Hill reaction inhibitor, 137
Himachalene, 2399
Hippodamine, 33
Hippuric acid, 2561
Hogna helluo, 2495
Holocrine glands, 1677
Homoptera, 2205
Honeybees, 919
Hordeum vulgare, 53
Horseshoe crab, 2321
Host selection, 663, 697, 985, 995, 1063, 2013
Host volatiles, 1, 697
Host-habitat location, 1535, 1547
HPLC, 161, 2547
Hydrocarbons, 919, 927, 1133, 1229, 1575, 1787, 1805, 2126, 2169
Hydrodynamics, 2305
Hydrogen peroxide, 53
Hydrophyllaceae, 371
Hydroxamic acids, 359, 2531
Hydroxybenzoic acid, 1701
Hyla regilla, 1667
Hylobius abietis, 2255
Hymenoptera, 33, 69, 733, 1561, 1575, 1841, 1911, 2169, 2205, 2507
Hyphenation, 2365

Iabial glands, 919
Indices, 411
Indole-3-acetic acid, 327
Induced defense, 593, 2235
Induced resistance, 273, 2531
Induced responses, 273, 547
Induction, 679
Inhibition, 1879
Insect herbivory, 593, 1595, 1749
Insect resistance, 2583
Insect-plant co-evolution, 2029
Interspecific competition, 1163
Introduced predators, 1667
Intrspecific aggressiveness, 1229
Ipstypographus, 2427
Iris hexagona, 327
Iron, 285
Isoflavonoids, 965
Isoquinoline alkaloids, 1713
Isothiocyanates, 243
Ixodid tick, 471

Janus integer, 1841
Jasmonic acid, 327, 499, 1729
Judaicin, 965
Juncus effuses, 257

Kahalalide F., 2289
Kairomone, 517, 633, 1119, 2495
Ketones, 523

Labial gland secretion, 175, 189
Ladybird, 243
Larrea tridentate, 2561
Larval development, 1535

Larval-habitat location, 1535, 1547
Larvicidal activity, 161
Lasiocampidae, 2519
Lathromeris ovicida, 663
Lavandulol, 1203
LC-MS, 2365
Leaching, 1011
Leaf beetle, 1105
Leaf-cutting ants, 109
Leech, 1249
Lepidoptera, 1535, 1547, 1879, 1911, 2042, 2097, 2109, 2153, 2519
Lettuce, 747
Leucinodes orbonalis, 1867
Leucomalure, 2153
Light, 313
Ligninlike compounds, 161
Limonoid, 137
Limulus polyphemus, 2321
Lineatin, 487
Liolaemus, 1677
Lodgepole pine, 2255
Lower terpenes, 2553
Lycosidae, 2495
Lymantria dispar, 1163
Lymantria fumida, 1163
Lymantria monacha, 1163
Lymantriidae, 2153

Maackiain, 965
Macaranga, 1979
Macrodactylus subspinosus, 419
Maize, 359
Malacosoma disstria, 1963, 2519
Male annihilation, 235
Male vibration, 1133
Mammalian pheromones, 1259, 1277
Mammalian semiochemicals, 1259, 1277
Mandibular gland, 109
Manduca sexta, 547, 1063
Mark-release-capture, 1561
Mass spectrometry, 2153, 2365, 2461
Mating behavior, 2053
Mating disruption, 2109
MCH, 217
Mechanical damage, 547
Mediterranean fruit fly, 233
Meliaceae, 137
Meliponinae, 69
Meloidogyne incognita, 859
Melolonthinae, 419
Merostomata, 2321
Messor, 945
Metabolism, 1077
Methodology, 1701
Methyl (2E,6E)-farnesoate, 2067
Methyl (E)-5-2,6,10-trimethyl-5,9-undecadienoate, 2067
Methyl (E)-6-2,3-dihydrofarnesoate, 1177, 2067
Methyl chavicol, 697
Methyl citronellate, 1177
Methyl eugenol, 953
Methyl jasomonate, 547, 679, 2531
Methyl salicylate, 1911
Methyl-5-hepten-2-olesters(6-), 1219
Methyl-5-hepten-2-one(6-), 1219
Methylcyclohex-3-en-1-one(3-), 217
Methylheptadecane(7-), 431
Methyl-Z-7-octadecene(2-), 1163
Metopolophium dirhodum, 359
Microorganisms, 1701
Microwave, 2353
Midgut, 2583
Mineral bioavailability, 1763
Miridae, 1133, 2449
Mixture, 807
Mode of action, 19
Monachalure, 1163
Monimiaceae, 93
Monitoring, 1, 907
Monochamus, alternatus, 1151
Monochamus, 633
MS-MS, 2365
Mutualism, 581, 2029
Myrmecophyte, 2029
Myrrhine, 33
Myzus persicae, 1749

Natural products chemistry, 1617
Nectar, 2547
Nematicide, 859
Neodiprion sertifer, 733
Neoleucinodes elegantalis, 2097
Neotoma lepida, 2561
Neotoma, 845
Nestmate recognition, 927
Nezara viridula, 1821
Nicotiana attenuata, 547
Nicotiana, 2583
Nitriles, 1911

Nitrogen, 1749
Noctuidae, 1879
Noegobius melanostomus, 443
Nonanal, 1547
Non-host volatiles, 217, 995
Non-protein amino acid, 19
Nootkatone, 1617
Norditerpenoid alkaloids, 151
Nortriterpenoid, 137

Octadecanoid pathway, 547
Octadecen-4-olide((Z)-9-), 1841
Octadecene((Z)-7-), 1163
Octanol(3-), 995
Octen-3-ol(1-), 471
Octyl *n*-butyrate, 2449
Odor avoidance, 1029
Odor-binding protein, 2183
Olfaction, 647, 871, 889
Ontogenetic constraints, 547
Oomyzus gallerucae, 499
Operophtera brumata, 1595
Oreina cacaliae, 647
Oscillatoria, 2265
Ostariophysan fishes, 1657
Ovarian fluid, 2339
Oviposition, 985,1091, 2013
Oviposition behavior, 1151
Oviposition scar, 1151
Oviposition-deterring pheromone, 1151
Oxidation products, 69
Ozone, 1049

Pachycoris stalli, 203
Pacific treefrogs, 1667
Pardosa milvina, 2495
Partner-plant recognition, 2029
Partner-plant selection, 2029
Pentacosadiene ((Z,Z)-6,9-), 2169
Pentacosene((Z)-9-), 1133
Pentatomidae, 203, 1177, 2067
Pest management, 1029
PH, 1899, 2561
Phacelia brachyloba, 371
Phacelia campanularia, 371
Phacelia grandiflora, 371
Phacelia minor, 371
Phacelia tanacetifolia, 371
Phagostimulants, 175, 189
Phenanthrenes, 257
Phenolic acid mixtures, 807
Phenolic acids, 125
Phenolic glycosides, 1595
Phenolics, 83, 383, 393, 411, 611, 623, 761, 1049, 2461, 2519, 2583
Phenotypic plasticity, 343, 593
Phenylheptatriyne, 313
Pheromone chirality, 431
Pheromone inactivation, 1879
Pheromone inhibitor, 1879
Pheromone, 109, 791, 1133, 1151, 1177, 1203, 1259, 1277, 1657, 2067, 2321, 2449
Pheroprax®, 2427
Philodendron guttiferum, 517
Phlorotannins, 1899
Phodopus sungorus sungorus, 1259, 1277
Photoenvironment, 313
Phratora, 1943
Phyllotreta, 2399
Phytic acid, 1763
Phytochemical variation, 313
Phytochemicals, 779
Phytohormones, 327
Phytotoxicity, 137, 383, 393, 411, 807, 1729, 2365
Pieridae, 1575
Pieris, 1575, 1585
Pieris brassicae, 2235
Pieris rapae, 1063, 1911
Pig weed, 2013
Pine weevil, 2255
Pinus contorta, 2255
Pinus radiata, 1091
Pinus sylvestris, 2255
Piper cenocladum, 581
Plant allocation theory, 761
Plant defense, 499, 679, 1713
Plant extracts, 2277
Plant growth inhibitor, 19
Plant induced defense, 2235
Plant residues, 393
Plant resistance, 359, 1763
Plant secondary compounds, 845, 1077
Plant-animal interactions, 2277
Plodia interpunctella, 2109
Poa pratensis, 725
Poaceae, 53, 359
Pogonomyrmex barbatus, 1805
Polar extracts, 1963
Polistes dominulus, 569

Polycose, 1997
Polyergus breviceps, 1787
Polynesian rat, 1029
Polyphagy, 1595
Polyphenolic compounds, 761, 1899
Polyvinlypolpyrrolidone, 1899
Popillia japonica, 419, 2169
Populus tremuloides, 1963, 2519
Postpharyngeal gland, 927
Potato, 1105, 1749
Precloacal pores, 1677
Precoccinelline, 33
Predation, 45, 533, 581, 979, 1775
Predator, 1667, 2495
Predator diet, 1657
Predator inspection, 1657
Predator odors, 1029
Predator recognition, 1667
Predator-prey, 1249
Preparative chiral liquid chromatography, 487
Primary attraction, 697
Primary metabolite, 1763
Priming odors, 2339
Prostaglandin $F_{2\alpha}$-2339
Protease inhibitors, 547, 593
Pseudococcidae, 2205
Puccinellia arctica, 725
Puccinellia langeana, 725
PVPP, 1899
Pyralidae, 2109
Pyrrolizidine alkaloids, 343

Queen killing, 1787
Queen pheromone recognition, 2439

R/FR, 313
Radish, 1701
Rainbow trout, 1641
Rana catesbeiana, 1667
Rana sylvatica., 45
RAPD, 747
Rat repellents, 1029
Rattus exulans, 1029
Rattus rattus, 1029
Receptor, 889
Receptor neuron, 1105
Receptor type, 871
Red maple, 1011, 2519
Redd, 1775
Relative taste preferences, 1997
Release rates, 2427
Repellent, 1091, 1617
Reproductive behavior, 1177, 2067
Reproductive character displacement, 1163
Reproductive isolating mechanisms, 431
Reticulitermes, 189, 2265
Rhizosphere bacteria, 807
Rhopalosiphum padi, 53, 2531
Rice leaf bug, 2449
Root exudates, 1691
Root-knot nematode, 859
Round goby, 443
Rumex crispus, 611
Rutelinae, 419

Sacciform cells, 533
Sacoglossan mollusks, 2289
Salicaceae, 2519
Salicin, 1077
Salicylates, 779, 1595
Salicylic acid, 327
Salinity, 327
Salix, 779
Salix spp., 1595
Salmonidae, 1641
Salmonids, 2339
Sampling range, 1561
Sanguinaria canadensis, 1713, 1729
Sanguinarine, 1729
Saturnia spp., 791
Sawfly, 1841, 2507
Scarabaeidae, 419, 2183
Schedorhinotermes, 189
Schizaphis graminum, 53
Scolytidae, 217, 633, 995, 2427
Scots pine, 2255
Scutelleridae, 203
Seasonal variation, 313
Seasonal, 1585
Seasonality of flight, 431
Secondary metabolism, 343
Secondary metabolite, 845, 1077, 1763
Secretion, 69, 175, 189, 919, 1259, 1575, 2473
Seed eating, 93
Seed respiration, 137
Selenastrum, 2265
Selenastrum capricornutum, 257
Semiochemical, 33, 419, 679, 1029, 1259, 1277, 1535, 1547, 1943, 2235, 2531
Senecio vulgaris, 343

Sensilla, 889
Sensory plasticity, 1063
Serum, 979
Sesamia calamistis, 663
Sesamia nonagrioides, 1879
Sesquestration, 2507
Sesquiterpenes, 499, 523, 2399, 2439
Seven-spot ladybird, 33
Sex pheromones, 443, 907, 1821, 1841, 1855, 1867, 1879, 2042, 2053, 2097, 2153, 2169, 2449
Sexual dimorphism, 443
Shade, 1729
Sheep, 2277
Ship rat, 1029
Shoots, 125
Short-rotation coppice, 1943
Signal peptide, 2183
Silver birch, 1049
Sinapis alba, 2507
Siparuna guianensis, 93
Sipha flava, 273
Size discrimination 2495
Skin glands, 2473
Slave-maker, 1787
Slimy sculpin, 1775
Smoke, 1091
Snow-secretion, 2473
Soaking, 1011
Social wasps, 569
Solanine, 1749
Solanum tuberosum, 1749
Solenopsis geminata, 2439
Sorghum, 81
Sorghum halepense, 273
Source-sink relations, 547
Speciation, 2126
Species diagnosis, 1575
Species recognition, 2126
Species specificity, 1575
Spermathecal gland, 1151
Spiny mouse, 1953
SPME, 1133
Spodoptera exigua, 679, 965, 2013
Spodoptera frudiperda, 965
Spodoptera littoralis, 965
Springene, 2461
Stereochemistry, 2153
Steroid hormones, 2339
Steroid, 443
Stored-product, 2109
Strawberry blossom weevil, 1203
Stress, 327
Styloconic sensilla, 1963
Sucrose esters, 371
Sugar maple, 2519
Sugars, 175
Sulfates, 2561
Sun and shade leaves, 1963
Superparasitism, 663
Suplementary sacculi, 1277
Surface chemistry, 285
Surface waxes, 985
Sustainable agriculture, 2365
Swimming behavior, 2305
Synergism, 383
Synomones, 499
Synonomy, 431
Systemic induction, 499

Tagetes erecta, 1119
Taiwania cryptomerioides, 717
Tall larkspur, 151
Tanacetum vulgare, 985
Tannins, 725, 761, 779, 1899, 1979
Task specificity, 919
Task-related, 1805
Taste, 1063, 1105
Tayassu pecari, 2461
Telenomus isis, 663
Tephritidae, 871, 889
Termite mounds, 285
Termites, 175, 189, 2265
Terpene, 69, 2553
Terpenoids, 137, 203, 1911
Tetradecadienal(4E-9Z-), 791
Tetradecatrienyl acetate(3E,8Z,11Z-3,8,11-), 907
Tetradece((Z)-9-), 791
Tetramorium bicarinatum, 1229
Thin-layer chromatography, 175
Tick, 471
Tineidae, 1535, 1547
Tineola bisselliella, 1535, 1547
Tolerance, 2561
Tomato, 2097
Tortricidae, 2042
Toxicants, 1617
Toxicity, 243
Trade-offs, 581

Trans-coniferyl alcohol, 953
Trans-conophthorin, 995
Transgenic plants, 2583
Traps, 979, 1091
Trembling aspen, 2519
Trichothecene, 859
Tricosadiene(Z,Z)-6,9-, 2169
Tricosatriene, (Z)-3,(Z)-6,(Z)-9, 2097
Trifluoromethyl ketones, 1879
Trifolium subterraneum, 411
Trigonotylus caelestialium, 2449
Triticum aestivum L., 125, 807, 1691
Tritrophic interactions, 243, 1911, 2235
Tropiduridae, 1677
Trypsin Inhibitors, 593
Tuta absoluta, 907

Ulmus minor, 499
Unsaturated hydrocarbons, 2169
Untanned animal pelts, 1535
Urine and feces, 1953
Urine, 2339, 2561
UV radiation, 313

Variation, 313, 1585, 2547
Venom secretion, 2439
Ventilation, 443
Ventral gland secretion, 1259
Verbenone, 487, 995
Vetivaria zizanioides, 523, 1617
Vetiver oil, 523
Vetivone, 1617
Volatile semiochemicals, 679
Volatiles, 1, 33, 217, 697, 831, 995, 1911, 1930, 1943, 2235
Vulpia, 383, 393

Weed, 747
Weed management, 2365
Weed suppression, 125, 1691
Weibull function, 411
West Africa, 663
Wheat, 125, 747, 1691
White-lipped peccary, 2461
Wild oats, 747
Willow, 779, 1595
Wind tunnel, 647
Wind-tunnel flight, 419
Witch hazel, 1011
Wolf spider, 2495
Wood frogs, 45
Wood rats, 845
Wounding, 593

Xiphosura, 2321
XPS, 285

Yeasts, 831
Y-tube bioassay, 1177